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09/921,936	08/02/2001	Madhu Rao	81862P248	8366
8791 BLAKELY SC	08/02/2001 Madhu Rao 81862P248 8366 7590 OKOLOFF TAYLOR & ZAFMAN EAD PARKWAY EXAMINER SURVILLO, OLEG			
1279 OAKME.	AD PARKWAY		SURVILLO, OLEG	
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BLAKELY SOKOLOFF TAYLOR & ZAFMAN 1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040	2142			
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
•		1				
Office Action Symmetry		09/921,936	RAO ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Oleg Survillo	2142			
Period fo	The MAILING DATE of this communication apor Reply	opears on the cover sheet w	vith the correspondence address			
VVHIO - Exte after - If NO - Failu Any	CORTENED STATUTORY PERIOD FOR REPI CHEVER IS LONGER, FROM THE MAILING I insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication 1 Depriod for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN. 136(a). In no event, however, may a d will apply and will expire SIX (6) MC tte, cause the application to become a	ICATION. I reply be timely filed NTHS from the mailing date of this communication. IBANDONED (35 U.S.C. § 133).			
Status						
1) 🔯	Responsive to communication(s) filed on 09	October 2007.				
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)[ince this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-81</u> is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) <u>1-81</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/	awn from consideration.				
Applicat	ion Papers		·			
9)[The specification is objected to by the Examin	ner.				
10)⊠ The drawing(s) filed on <u>02 August 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
	Applicant may not request that any objection to the		• •			
11)	Replacement drawing sheet(s) including the corre The oath or declaration is objected to by the E	•				
Priority (under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a list	nts have been received. Its have been received in ority documents have bee au (PCT Rule 17.2(a)).	Application No n received in this National Stage			
Attachmer	at(s) ce of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)			
2) Notice 3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	Paper No	(s)/Mail Date Informal Patent Application			

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DETAILED ACTION

Response to Amendment

1. This Action is responsive to the amendment filed on October 9, 2007. Claims 1-81 are pending in the application. Claims 1, 3, 4, 7-12, 16, 24, 25, 27-48, 56, 57, 59-64, 67, 68, 71, 72, 75, 76, 79, and 80 are amended herein. No claims have been canceled. No new claims have been added.

Response to Arguments

2. With regard to the Applicants' remarks filed on October 9, 2007:

Regarding the objection to specification, the amendment has been fully considered and is sufficient. Therefore, the objection has been withdrawn.

Regarding the rejection of claims 33-48 under 35 U.S.C. 101 as being directed to non-statutory subject matter, the amendment and arguments have been fully considered and are persuasive. Therefore, the rejection has been withdrawn.

Regarding the rejection of claims 3-4, 7-12, 24-25, 27-32, 40-41, 43-48, 56-57, 59-64, 67-68, 71-72, 75-76 and 79-80 under 35 U.S.C. 112, second paragraph, as having an insufficient antecedent basis, the arguments and amendments have been fully considered and are persuasive. Therefore, the rejection has been withdrawn.

Regarding the rejection of claims 33-48 under 35 U.S.C. 112, second paragraph, as being ambiguous, the arguments and amendments have been fully considered and are persuasive. Therefore, the rejection has been withdrawn.

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Regarding the rejection of claims 1-81 under 35 U.S.C. 102(a) as being anticipated by Cisco document (Cisco Publication: Frame Relay ELMI Address Registration, posted on Dec. 6, 2000), Applicants' declarations under 37 CFR 1.132 to establish that the subject matter of the Cisco Document relied on in the rejection of claims 1-81 was derived from the applicants rather than being invented by the author of the Cisco Document and arguments were considered but they are not persuasive for the reasons stated below. Therefore, the rejection is maintained.

Response to Declaration under 37 CFR 1.132

The two separate declarations under 37 CFR 1.132 of inventors Madhu Rao and Srikanthkumar Hosakote filed on October 9, 2007 to establish that the subject matter of the Cisco Document relied on in the rejection was derived from the applicants rather than being invented by the author of the Cisco Document are <u>insufficient</u> to overcome the rejection of claims 1-81 based upon the Cisco Document as set forth in the last Office action because:

The declaration refers only to invention, not to claims. It refers only to the system and method described in the above referenced application and not to the individual claims of the application. As such the declaration does not show that the objective evidence of nonobviousness is commensurate in scope with the claims. See MPEP 716

In particular, applicants stated that Exhibit B (Office action dated June 6, 2007 of the above-referenced application) describes the relevant subject matter of Exhibit A. It appears that applicants attempted to show that since Office action describes the

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relevant subject matter of Exhibit A, the Cisco Document is commensurate in scope with the claims. Also, applicants attempted to show that since the Cisco Document was derived from the ELMI Protocol Document (Exhibit C), the ELMI Protocol Document is commensurate in scope with the claims. However, applicants did not affirm that examiner's interpretation of the Cisco Document used to in the rejection of claims 1-81 is correct.

Comment Regarding Examination

In order to further prosecution of the above-referenced application the examiner provides the following comments regarding independent claim 1.

As to claim 1, it is being noted that there is no functional language that would link the claimed limitations, such that a local area network management system (LMS), wide area network management system (WMS) and address registration information are essentially separate elements wherein each one is not required for the other one to function properly. Address registration information that is appended to a message does not seem to require LMS or WMS, or both, as presently claimed. The examiner brings applicants' attention to paragraph [0015] of the specification that appears to provide the functional language linking LMS, WMS and address registration information.

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Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 1 recites the limitations "the first router" and "the first switch" in line 8.

There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1-81 are rejected under 35 U.S.C. 102(a) as being anticipated by Cisco document (Cisco Publication: Frame Relay ELMI Address Registration, posted on Dec. 6, 2000).

As to claim 1, Cisco document shows a system, comprising:

a local area network management system to manage and configure a network of routers comprising Network Management System (NMS) (page 2, under section Feature Overview and Fig. 1),

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a wide area network management system to manage and configure a network of switches comprising Network Management System (NMS) (page 2, under section Feature Overview and Fig. 1), and

address registration information to be appended to a message sent between a first router of the network of routers and a first switch of the network of switches over a connection between the first router and the first switch (page 2, under section Feature Overview and Fig. 1).

As to claim 2, Cisco document shows that the address registration information comprises an interface index (page 2, under Feature Overview, line 4).

As to claim 3, Cisco document shows that the interface index comprises a slot number from which the appended message was sent comprising enabling ELMI on the Cisco router and Cisco switch, which configures the slot number in the interface index (under Prerequisites and Table 1).

As to claim 4, Cisco document shows that the interface index comprises a port number from which the appended message was sent comprising enabling ELMI on the Cisco router and Cisco switch, which configures the port number in the interface index (under Prerequisites and Table 1).

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As to claim 5, Cisco document shows that the address registration information comprises an Internet Protocol address (under Feature Overview, line 4).

As to claim 6, Cisco document shows that the address registration information comprises spare bytes wherein spare bytes are the last 6 bytes of the address registration information that follow an IP address information bytes (page 18, sample output following Table 3, and Table 4).

As to claim 7, Cisco document shows that the router sends the appended message (page 2 lines 1-5 and page 8 under Usage Guidelines, "...the first line describes the LMI request that the router has sent to ..." & "... you can use this command to determine whether the router and the (Frame Relay switch) are sending and receiving LMI packets properly ...").

As to claim 8, Cisco document shows that the switch sends the appended message (page 2 lines 1-5 and page 8 under Usage Guidelines, "...the second line describes the LMI reply that the router has received from the switch ..." and "... you can use this command to determine whether (the router) and the Frame Relay switch are sending and receiving LMI packets properly ...").

As to claim 9, Cisco document shows that the appended message is an enhanced local management interface message (page 2 under Feature Overview).

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As to claim 10, Cisco document shows that the appended message is sent when the network of switches and the network of routers are first configured (page 2, Fig. 1, "... the first switch and router are first configured and under Prerequisites, "ELMI must be enabled on the Cisco router and Cisco switch").

As to claim 11, Cisco document shows that the appended message is sent when the network of switches or the network of routers has a change in configuration (page 2 under Feature Overview, "... When the management IP address of the switch changes, an asynchronous ELMI version status message is sent to the neighboring device immediately...").

As to claim 12, Cisco document shows that the appended message is sent at a regular interval (page 2, under Feature Overview, "... the NMS 'polls' the devices to collect the connectivity information...").

As to claim 13, Cisco document shows that the local area network management system uses the address registration information to map the network of switches (page 2, under Feature Overview, "With the Frame Relay ELMI Address Registration feature, the NMS can detect switch and router interconnection and create an end-to-end network topology map for network administrators", Table 2, "... yourseen (136) counter maps to the LAST RCVD SEQ counter of the switch...").

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As to claim 14, Cisco document shows that the local area network management system configures the network of switches (under Prerequisites, "ELMI must be enabled (configured) on the Cisco switch").

As to claim 15, Cisco document shows that the wide are network management system uses the address registration information to map the network of routers (page 2, under Feature Overview, "With the Frame Relay ELMI Address Registration feature, the NMS can detect switch and router interconnection and create an end-to-end network topology map for network administrators").

As to claim 16, Cisco document shows that the wide area network management system uses the address registration information to map the network of routers (under Configuring the IP address to be Used for ELMI Address Registration Configuration, "... because no other IP address was configured, the router will share an IP address of 0.0.0.0 and a valid ifIndex.").

As to claim 17, Cisco document shows a method, comprising appending address registration information to a message and sending the message between a router of a router network and a switch of a switch network (pages 2-3, under Feature Overview, and Fig. 1).

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Claims 18-32 have similar limitations as claims 1-16, which are directed to switches and routers in the system that makes the interconnectivity including the LAN and WAN. Therefore, claims 18-32 are anticipated by the Cisco document for the same reasons set forth in the rejection of claims 1-16.

As to claim 33, Cisco document shows a machine-readable storage medium tangibly embodying a sequence of instructions executable by the machine to perform a method comprising appending address registration information to a message, and sending the message between a router of a router network and a switch of a switch network comprising enhancing the Cisco Frame Relay MIB to support the new ELMI information and wherein NMS uses the MIB to extract the IP address and ifIndex of devices neighboring the managed device using embedded instructions (pages 2-3 under Feature Overview, and Fig. 1)

Claims 34-48 have similar limitations as claims 17-32, which are directed to a method of appending address registration information to a message, and sending the message between a router of a router network and a switch of a switch network.

Therefore, claims 34-48 are anticipated by the Cisco document for the same reasons set forth in the rejection of claims 1-16.

As to claim 49, Cisco document shows a system comprising a switch for appending address registration information to a message and sending the message

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between a router of a router network and a switch of a switch network (page 3 under Feature Overview).

Claims 50-64 are directed to a system that has similar limitations incorporating WAN, LAN, NMS, CLI, and ELMI as the system of claims 1-16. Therefore, claims 50-64 are anticipated by the Cisco document for the same reasons set forth in the rejection of claims 1-16.

As to claims 65-80, the devices of a router and a switch that send appended message over a connection that connects the routing unit and the switching unit, have similar limitations as claims 1-16. Therefore, claims 65-80 are anticipated by the Cisco document for the same reasons set forth in the rejection of claims 1-16.

As to claim 81, Cisco document shows a method comprising appending address registration information to a message (under Configuration Examples, "Configuring the IP address to be used for ELMI address registration configuration – The following example shows how to configure the IP address to be used for ELMI address registration. Automatic IP address selection is automatically disabled when the IP address is configured. ELMI is enabled on serial interface 0."), sending the message between a router of a router network and a switch of a switch network (under Feature Overview and Fig. 1), using the address registration information to map the router network from a wide area network management system controlling the switch network

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(under Feature Overview, "With the Frame Relay ELMI Address Registration feature, the NMS can detect switch and router interconnection and create an end-to-end network topology "map" for network administrators"), configuring the router network using the wide area network management system (under Benefits, "... using the ELMI protocol and an enhanced MIB, an NMS can now detect connectivity among the switches and routers in a network. This new functionality allows for autodetection of the complete network topology."), using the address registration information to map the switch network from a local area network management system controlling the router network (under Benefits, "... using the ELMI and enhanced MIB, an NMS can now detect connectivity among the switches and the routers in a network. This new functionality allows for autodetection of the complete network topology."), and configuring the switch network using the local area network management system (under Prerequisites, "ELMI must be enabled (configured) on the Cisco switch").

Conclusion

3. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Oleg Survillo whose telephone number is 571-272-9691.

The examiner can normally be reached on M-Th 7:30am - 5:00pm; F 7:30am - 4:00pm

EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Andrew Caldwell can be reached on 571-272-3868. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Examiner: Oleg Survillo

Phone: 571-272-9691

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